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What is claimed is:

- 1. A protective film protecting a dielectric layer of a plasma display panel from discharge, containing metallic oxide, and a volume resistivity of said protective film being 3.5 \times 10 11 Ω cm or more.
- 2. The protective film according to claim 1, containing 3 hydrogen atoms or more when the number of total atoms in said protective film is defined as 100.
- 3. A protective film protecting a dielectric layer of a plasma display panel from discharge, containing metallic oxide and hydrogen, the number of hydrogen atoms being 3 or more when the number of total atoms in said protective film is defined as 100.
 - 4. The protective film according to claim 1, wherein said metallic oxide is MgO.
 - 5. The protective film according to claim 3, wherein said metallic oxide is MgO.
 - 6. The protective film according to claim 4, wherein a peak of light emission intensity of light emitting center in 510 to 560 nm in a cathode luminescence is higher than that of light emission intensity of light emitting center in 280 to 440 nm or 680 to 760 nm.
- 7. The protective film according to claim 5, wherein a peak of light emission intensity of light emitting center in 510 to 560 nm in a cathode luminescence is higher than that of light emission intensity of light emitting center in 280 to 440 nm or 680 to 760 nm.
 - 8. The protective film according to claim 6, wherein

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the number of said hydrogen atoms is at least the number of total deficits of total oxygen atoms and metal atoms.

- 9. The protective film according to claim 7, wherein the number of said hydrogen atoms is at least the number of total deficits of total oxygen atoms and metal atoms.
- 10. The protective film according to claim 1, wherein said protective film is formed by means of performing a heat treatment in atmosphere including hydrogen in excited or ionized state.
- 11. The protective film according to claim 3, wherein said protective film is formed by means of performing a heat treatment in atmosphere including hydrogen in excited or ionized state.
- 12. The protective film according to claim 1,
 15 wherein a surface roughness Ra of said protective film is 5
 nm or more.
 - 13. The protective film according to claim 3, wherein a surface roughness Ra of said protective film is 5 nm or more.
- 20 14. The protective film according to claim 1, wherein said protective film has (111) orientation.
 - 15. The protective film according to claim 3, wherein said protective film has (111) orientation.
- 16. A method of forming a protective film protecting 25 a dielectric layer of a plasma display panel from discharge, comprising the steps of:

forming a metallic oxide film; and performing a heat treatment of said metallic oxide

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film in atmosphere including hydrogen in excited or ionized state.

17. A method of forming a protective film protecting a dielectric layer of a plasma display panel from discharge, comprising the step of:

forming a film containing a metallic oxide while performing a heat treatment in atmosphere including hydrogen in excited or ionized state.

- 18. A plasma display panel, comprising a protective film according to claim 1.
- 19. A plasma display panel, comprising a protective film according to claim 3.
- 20. A method of manufacturing a plasma display panel, comprising the step of:

forming a protective film by the method according to claim 16.

21. A method of manufacturing a plasma display panel, comprising the step of:

forming a protective film by the method according to 20 claim 17.